



CD16 Monoclonal Antibody (eBioCB16 (CB16)), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	eBioCB16 (CB16)
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 nm
Form	Liquid
Concentration	5 μL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574499

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	5 μL (0.125 μg)/test	20 Publications
T-Cell Activation (TCA)	-	1 Publication

Product Specific Information

Description: The eBioCB16 monoclonal antibody recognizes CD16 (Fc gammaRIII), the low-affinity receptor for IgG with an apparent molecular weight of 50-80 kDa. CD16 is represented by two similar genes, CD16A (Fc gammaRIIIA), which exists as a hetero-oligomeric polypeptide-anchored form in macrophages and NK cells and CD16B (Fc gammaRIIIB), which exist as a monomeric GPI-anchored form in neutrophils. Furthermore, there are two known polymorphisms of CD16B, NA-1 and NA-2. Individuals homozygous for NA-2 show a lower phagocytic capacity compared with NA-1. CD16 binds IgG in the form of immune complexes and shows preferential binding of IgG1 and IgG3 isotypes and minimal binding of IgG2 and IgG4. Upon IgG binding, both CD16 isoforms initiate signal transduction cascades that lead to a variety of responses including antibody-dependent cell-mediated cytotoxicity (ADCC), phagocytosis, degranulation and proliferation.

Applications Reported: This eBioCB16 (CB16) antibody has been reported for use in flow cytometric analysis.

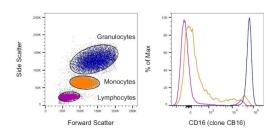
Applications Tested: This eBioCB16 (CB16) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

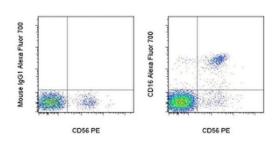
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD16 Monoclonal Antibody (eBioCB16 (CB16)), Alexa Fluor™ 700, eBioscience™



CD16 Antibody (56-0168-42)

Staining of human peripheral blood cells. As expected based on known relative expression patterns, CD16 clone CB16 stains all granulocytes, a subset of monocytes and a subset of lymphocytes (NK cells). Details: Normal human whole blood was surface stained with CD16 (clone CB16). After staining, red blood cells were lysed using 1-step Fix/Lyse Buffer. Cells in the lymphocyte (purple histogram), monocyte (orange histogram), or granulocyte (blue histogram) gates were used for analysis. {RE}



CD16 Antibody (56-0168-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) PE (Product # 12-0567-42) and Mouse IgG1 K Isotype Control Alexa Fluor® 700 (Product # 56-4714-80) (left) or Anti-Human CD16 Alexa Fluor® 700 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

□ 23 References

Immunocytochemistry (2)

OncoTargets and therapy

A DNA vaccine encoding mutated HPV58 mE6E7-Fc-GPI fusion antigen and GM-CSF and B7.1.

Year 2015

"Published figure using CD16 monoclonal antibody (Product # 56-0168-42) in Immunofluorescence" Authors: Wang H,Yu J,Li L

Arthritis research & therapy

Decreased plasma levels of soluble CD18 link leukocyte infiltration with disease activity in spondyloarthritis.

Year 2014

"Published figure using CD16 monoclonal antibody (Product # 56-0168-42) in Immunofluorescence"

Authors: Kragstrup TW, Jalilian B, Hvid M, Kjærgaard A, Østgård R, Schiøttz-Christensen B, Jurik AG, Robinson WH, Vorup-Jensen T, Deleuran B

Flow Cytometry (20)

Peer.l

SARS-CoV-2 Delta (B.1.617.2) variant replicates and induces syncytia formation in human induced pluripotent stem cell-derived macrophages.

"Published figure using CD16 monoclonal antibody (Product # 56-0168-42) in Flow Cytometry"

Authors: Thaweerattanasinp T,Wanitchang A,Saenboonrueng J,Srisutthisamphan K,Wanasen N,Sungsuwan S, Jongkaewwattana A,Chailangkarn T

Year 2023

Wellcome open research

-----A type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS--.

"Published figure using CD16 monoclonal antibody (Product # 56-0168-42) in Flow Cytometry"

Authors: Reyes L,A Sanchez-Garcia M,Morrison T,Howden AJM,Watts ER,Arienti S,Sadiku P,Coelho P,Mirchandani AS,Zhang A,Hope D,Clark SK,Singleton J,Johnston S,Grecian R,Poon A,McNamara S,Harper I,Fourman MH,Brenes AJ,Pathak S,Lloyd A,Blanco GR,von Kriegsheim A,Ghesquiere B,Vermaelen W,Cologna CT,Dhaliwal K,Hirani N, Dockrell DH,Whyte MKB,Griffith D,Cantrell DA,Walmsley SR

Year 2023

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More applications with references on thermofisher.com

TCA (1)

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